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<140> PCT/DE99/03732
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Arg Ser Leu Glu Cys Arg Ser Asp Pro Glu Ser Pro Ile Lys Lys Thr

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Pro Asp Ala Asp Arg Thr Thr Leu Asn His Ala Asp His Ser Ser Lys
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Ile Val Gln His Arg Leu Leu Ser Arg Gln Glu Glu Leu Lys Glu Arg
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Ala Arg Val Leu Leu Glu Gln Ala Arg Arg Asp Ala Ala Leu Lys Ala
        115                 120                 125

Gly Asn Lys His Asn Thr Asn Thr Ala Thr Pro Phe Cys Asn Arg Gln
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Glu Ile Pro Glu Gly Phe Val Val Gly Gly Gly Asp Glu Leu Thr Asn
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Leu Lys Leu Lys Lys Leu Leu Glu Val Gln Pro Gln Val Ala Asn Ser
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Ala Leu Val Glu Lys Arg Leu Arg Tyr Leu Met Asp Thr Gly Arg Asn
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Thr Glu Glu Glu Glu Ala Met Met Gln Glu Trp Phe Met Leu Val Asn
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Arg Ser Leu Glu Cys Arg Ser Asp Pro Glu Ser Pro Ile Lys Lys Thr
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Ser Leu Ser Pro Thr Ser Lys Leu Gly Tyr Ser Tyr Ser Arg Asp Leu
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Asp Leu Ala Lys Lys Lys His Ala Ser Leu Arg Gln Thr Glu Ser Asp
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Pro Asp Ala Asp Arg Thr Thr Leu Asn His Ala Asp His Ser Ser Lys
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Ile Val Gln His Arg Leu Leu Ser Arg Gln Glu Glu Leu Lys Glu Arg
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Ala Arg Val Leu Leu Glu Gln Ala Arg Arg Asp Ala Ala Leu Lys Ala
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Gln Ile Asp Thr Arg Ala Ala Leu Val Glu Lys Arg Leu Arg Tyr Leu
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Met Asp Thr Gly Arg Asn Thr Glu Glu Glu Glu Ala Met Met Gln Glu
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Ser Leu Ser Pro Thr Ser Lys Leu Gly Tyr Ser Tyr Ser Arg Asp Leu
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Asp Leu Ala Lys Lys Lys His Ala Ser Leu Arg Gln Thr Glu Ser Asp
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Pro Asp Ala Asp Arg Thr Thr Leu Asn His Ala Asp His Ser Ser Lys
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Ile Val Gln His Arg Leu Leu Ser Arg Gln Glu Glu Leu Lys Glu Arg
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Lys Phe Lys Pro Leu Ser Lys Lys Val Val Ser Ala Ala Leu Gln Phe
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Ser Leu Ser Cys Ile Phe Leu Arg Glu Gly Lys Ala Thr Asp Glu Asp
         35                  40                  45

Met Gln Ser Leu Ala Ser Leu Val Ser Met Lys Gln Ala Asp Ile Gly
     50                  55                  60

Asn Leu Asp Asp Phe Glu Glu Asp Asn Glu Asp Asp Asp Glu Asn Arg
 65                  70                  75                  80

Val Asn Gln Glu Glu Lys Ala Ala Lys Ile Thr Glu Leu Ile Asn Lys
                 85                  90                  95

Leu Asn Phe Leu Asp Glu Ala Glu Lys Asp Leu Ala Thr Val Asn Ser
            100                 105                 110


Asn Pro Phe Asp Asp Pro Asp Ala Ala Glu Leu Asn Pro Phe Gly Asp
        115                 120                 125

Pro Asp Ser Glu Glu Pro Ile Thr Glu Thr Ala Ser Pro Arg Lys Thr
    130                 135                 140

Glu Asp Ser Phe Tyr Asn Asn Ser Tyr Asn Pro Phe Lys Glu Val Gln
145                 150                 155                 160
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Thr Pro Gln Tyr Leu Asn Pro Phe Asp Glu Pro Glu Ala Phe Val Thr
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Ile Lys Asp Ser Pro Pro Gln Ser Thr Lys Arg Lys Asn Ile Arg Pro
            180                 185                 190

Val Asp Met Ser Lys Tyr Leu Tyr Ala Asp Ser Ser Lys Thr Glu Glu
        195                 200                 205

Glu Glu Leu Asp Glu Ser Asn Pro Phe Tyr Glu Pro Lys Ser Thr Pro
    210                 215                 220

Pro Pro Asn Asn Leu Val Asn Pro Val Gln Glu Leu Glu Thr Glu Arg
225                 230                 235                 240

Arg Val Lys Arg Lys Ala Pro Ala Pro Pro Val Leu Ser Pro Lys Thr
                245                 250                 255

Gly Val Leu Asn Glu Asn Thr Val Ser Ala Gly Lys Asp Leu Ser Thr
            260                 265                 270

Ser Pro Lys Pro Ser Pro Ile Pro Ser Pro Val Leu Gly Arg Lys Pro
        275                 280                 285

Asn Ala Ser Gln Ser Leu Leu Val Trp Cys Lys Glu Val Thr Lys Asn
    290                 295                 300
Tyr Arg Gly Val Lys Ile Thr Asn Phe Thr Thr Ser Trp Arg Asn Gly
305                 310                 315                 320

Leu Ser Phe Cys Ala Ile Leu His His Phe Arg Pro Asp Leu Ile Asp
                325                 330                 335

Tyr Lys Ser Leu Asn Pro Gln Asp Ile Lys Glu Asn Asn Lys Lys Ala
            340                 345                 350

Tyr Asp Gly Phe Ala Ser Ile Gly Ile Ser Arg Leu Leu Glu Pro Ser
        355                 360                 365

Asp Met Val Leu Leu Ala Ile Pro Asp Lys Leu Thr Val Met Thr Tyr
    370                 375                 380

Leu Tyr Gln Ile Arg Ala His Phe Ser Gly Gln Glu Leu Asn Val Val
385                 390                 395                 400

Gln Ile Glu Glu Asn Ser Ser Lys Ser Thr Tyr Lys Val Gly Asn Tyr
                405                 410                 415
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Glu Thr Asp Thr Asn Ser Ser Val Asp Gln Glu Lys Phe Tyr Ala Glu
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Leu Ser Asp Leu Lys Arg Glu Pro Glu Leu Gln Gln Pro Ile Ser Gly
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Ala Val Asp Phe Leu Ser Gln Asp Asp Ser Val Phe Val Asn Asp Ser
    450                 455                 460

Gly Val Gly Glu Ser Glu Ser Glu His Gln Thr Pro Asp Asp His Leu
465                 470                 475                 480

Ser Pro Ser Thr Ala Ser Pro Tyr Cys Arg Arg Thr Lys Ser Asp Thr
                485                 490                 495
Glu Pro Gln Lys Ser Gln Gln Ser Ser Gly Arg Thr Ser Gly Ser Asp
            500                 505                 510

Asp Pro Gly Ile Cys Ser Asn Thr Asp Ser Thr Gln Ala Gln Val Leu
        515                 520                 525

Leu Gly Lys Lys Arg Leu Leu Lys Ala Glu Thr Leu Glu Leu Ser Asp
    530                 535                 540

Leu Tyr Val Ser Asp Lys Lys Lys Asp Met Ser Pro Pro Phe Ile Cys
545                 550                 555                 560

Glu Glu Thr Asp Glu Gln Lys Leu Gln Thr Leu Asp Ile Gly Ser Asn
                565                 570                 575

Leu Glu Lys Glu Lys Leu Glu Asn Ser Arg Ser Leu Glu Cys Arg Ser
            580                 585                 590

Asp Pro Glu Ser Pro Ile Lys Lys Thr Ser Leu Ser Pro Thr Ser Lys
        595                 600                 605

Leu Gly Tyr Ser Tyr Ser Arg Asp Leu Asp Leu Ala Lys Lys Lys His
    610                 615                 620

Ala Ser Leu Arg Gln Thr Glu Ser Asp Pro Asp Ala Asp Arg Thr Thr
625                 630                 635                 640

Leu Asn His Ala Asp His Ser Ser Lys Ile Val Gln His Arg Leu Leu
                645                 650                 655

Ser Arg Gln Glu Glu Leu Lys Glu Arg Ala Arg Val Leu Leu Glu Gln
            660                 665                 670

Ala Arg Arg Asp Ala Ala Leu Lys Ala Gly Asn Lys His Asn Thr Asn
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        675                 680                 685
Thr Ala Thr Pro Phe Cys Asn Arg Gln Leu Ser Asp Gln Gln Asp Glu
    690                 695                 700

Glu Arg Arg Arg Gln Leu Arg Glu Arg Ala Arg Gln Leu Ile Ala Glu
705                 710                 715                 720

Ala Arg Ser Gly Val Lys Met Ser Glu Leu Pro Ser Tyr Gly Glu Met
                725                 730                 735

Ala Ala Glu Lys Leu Lys Glu Arg Ser Lys Ala Ser Gly Asp Glu Asn
            740                 745                 750

Asp Asn Ile Glu Ile Asp Thr Asn Glu Glu Ile Pro Glu Gly Phe Val
        755                 760                 765

Val Gly Gly Gly Asp Glu Leu Thr Asn Leu Glu Asn Asp Leu Asp Thr
    770                 775                 780

Pro Glu Gln Asn Ser Lys Leu Val Asp Leu Lys Leu Lys Lys Leu Leu
785                 790                 795                 800

Glu Val Gln Pro Gln Val Ala Asn Ser Pro Ser Ser Ala Ala Gln Lys
                805                 810                 815

Ala Val Thr Glu Ser Ser Glu Gln Asp Met Lys Ser Gly Thr Glu Asp
            820                 825                 830

Leu Arg Thr Glu Arg Leu Gln Lys Thr Thr Glu Arg Phe Arg Asn Pro
        835                 840                 845

Val Val Phe Ser Lys Asp Ser Thr Val Arg Lys Thr Gln Leu Gln Ser
    850                 855                 860

Phe Ser Gln Tyr Ile Glu Asn Arg Pro Glu Met Lys Arg Gln Arg Ser
865                 870                 875                 880
Ile Gln Glu Asp Thr Lys Lys Gly Asn Glu Glu Lys Ala Ala Ile Thr
                885                 890                 895

Glu Thr Gln Arg Lys Pro Ser Glu Asp Glu Val Leu Asn Lys Gly Phe
            900                 905                 910

Lys Asp Thr Ser Gln Tyr Val Val Gly Glu Leu Ala Ala Leu Glu Asn
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Glu Gln Lys Gln Ile Asp Thr Arg Ala Ala Leu Val Glu Lys Arg Leu
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```

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Arg Tyr Leu Met Asp Thr Gly Arg Asn Thr Glu Glu Glu Glu Ala Met
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Met Gln Glu Trp Phe Met Leu Val Asn Lys Lys Asn Ala Leu Ile Arg
                965                 970                 975

Arg Met Asn Gln Leu Ser Leu Leu Glu Lys Glu His Asp Leu Glu Arg
            980                 985                 990

Arg Tyr Glu Leu Leu Asn Arg Glu Leu Arg Ala Met Leu Ala Ile Glu
        995                1000                1005

Asp Trp Gln Lys Thr Glu Ala Gln Lys Arg Arg Glu Gln Leu Leu Leu
   1010                1015                1020

Asp Glu Leu Val Ala Leu Val Asn Lys Arg Asp Ala Leu Val Arg Asp
1025                1030                1035                1040

Leu Asp Ala Gln Glu Lys Gln Ala Glu Glu Glu Asp Glu His Leu Glu
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Arg Thr Leu Glu Gln Asn Lys Gly Lys Met Ala Lys Lys Glu Glu Lys
           1060                1065                1070

Cys Val Leu Gln
       1075
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1

26